

Product datasheet for **MG203104**

Atp6v1d (NM_023721) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp6v1d (NM_023721) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Atp6v1d
Synonyms: 1110004P10Rik; Atp6m; VATD; Vma8
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203104 representing NM_023721
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGGCAAAGACCGGATTGAAATCTCCCTTCGCGAATGGCACAGACCATCATGAAGGCTCGATTAA
AAGGAGCACAGACTGGTCGAAACCTTCTGAAGAAAAGTCTGATGCCTAACTCTTCGATTTGACAGAT
CCTGAAGAAGATAATAGAGACTAAAATGCTGATGGGTGAAGTGATGAGAGAAGCTGCCTTCTCATTGGCT
GAGGCCAAATTCACAGCAGGGGACTTCAGCACCACAGTTATCCAAAATGTAATAAAGCCCAAGTGAAGA
TCAGAGCAAAGAAAGACAATGTAGCAGGTGTACCTTGCCAGTGTGTTAACATTACCACGAAGGAAGTGA
CAGCTATGAACTGACCGTTTAGCCAGAGGTGGGAGCAGCTGGCTAAACTAAAGCGGAATTATGCCAAA
GCAGTGGAACTACTGGTGGAACTGGCTTCCCTGCAGACTTCCTTTGTTACCCTGGATGAAGCCATTA
TCACCAACAGGCGTGTAAATGCCATTGAGCATGTCATTATCCCGGATTGAACGCACCCTTGCCTATAT
CATCACAGAACTGGATGAGAGAGAGCGAGAAGAAATCTATAGGTTAAAGAAAATACAGGAGAAGAAAAAG
ATTATCAAGGAAAAATTTGAGAAGGACTTGGAGCGCGGAGCAGCTGGAGAGGTGATGGAGCCTGCCA
ACCTGCTGGCTGAAGAGAAGGACGAGGACCTGCTGTTCGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203104 representing NM_023721
Red=Cloning site Green=Tags(s)

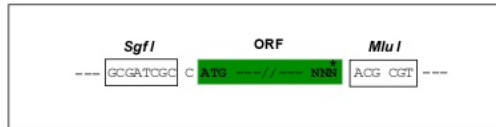
MSGKDRIEIFPSRMAQTIMKARLKGAQTGRNLLKKKSDALTLRFRQILKKI IETKMLMGEVMREAAFSLA
 EAKFTAGDFSTTVIQNVNKAQVKIRAKKDNVAGVTLPVFEHYHEGTDSEYELTGLARGGEQLAKLKRNYAK
 AVELLVELASLQTSFVTLDEAIKITNRRVNAIEHVIIIPRIERTLAYIITELDEREREEFYRLKKIQEKKK
 IIKEKFEKDLERRRAAGEVMEPANLLAEKDEDLLFE

TRTRPLE - GFP Tag - V

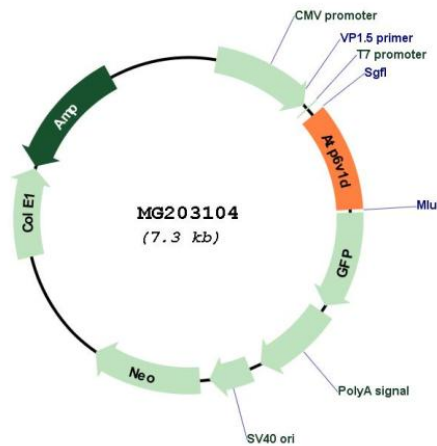
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_023721

ORF Size: 741 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_023721.2 , NP_076210.1
RefSeq Size:	1410 bp
RefSeq ORF:	744 bp
Locus ID:	73834
UniProt ID:	P57746
Cytogenetics:	12 35.51 cM
Gene Summary:	Subunit of the peripheral V1 complex of vacuolar ATPase. Vacuolar ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells, thus providing most of the energy required for transport processes in the vacuolar system. May play a role in cilium biogenesis through regulation of the transport and the localization of proteins to the cilium (By similarity).[UniProtKB/Swiss-Prot Function]